

September 2, 2020

Lucite

Subject: September vibration report

Most of the machines surveyed were found to be in good condition with the exception of the following:

QualiTest® uses a four-step rating system for defects.

Class I: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

Class II: Defect (s) present that may cause problem in long term (2-6 months.). Repair during normal maintenance scheduling. Continue to monitor.

Class III: Defect (s) present that may cause failure in short term (less than 2 months.). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

Class IV: Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs

Hi-Speed Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

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Senior Reliability Specialists
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Detailed Defects

SAR 03 Turbine Compressor Main Blower

The unit 1x RPM vibration has dropped slightly. Unit speed will most likely have some influence on vibration amplitude. Inspection of unit near the compressor end is still recommended. Our motion amplification camera system could help to identify if there are any structural issues. **Rated a Class II Defect.**

SAR 156 Spent Acid Feed Booster North

The data suggests the motor bearings are in severe distress. Discreet frequencies have been replaced with random noise. Replace the motor and inspect the pump and coupling during service. **Rated a Class III Defect.**

Observations

SAR 39C North East BFWP

Vibration data showed a large 1x RPM vibration in the fan end of the motor. Inspect for 1 or more of the following: bent shaft, poor coupling condition or installation, poor alignment, loose mounting bolts, cracked or defective base structure, or damaged fan.

SAR 10 Process Air Fan E

Still almost 3 g's RMS acceleration is still evident in the fan bearing data as noise. Higher speed fans like this one will usually generate more normally, so we will watch this unit closely. Make sure bearings are lubricated for service and environment; and inspect the installation and fasteners. **Rated a Class I Defect.**

MON132 Decanter Feed Pump Spare

A 1xRPM vibration at about 0.35"/sec velocity peak still appears to be in both the pump inboard bearing in the vertical. Inspect the unit for loose fasteners and structural issues. Check the coupling for wear and perform an alignment check and a shaft run out check. **Rated a Class I Defect.**

MON 36 Irganox Mix Feed Pump

The vibration data still looks to indicate a bearing race defect due to a first vibration at just over 3 orders of shaft speed has multiple harmonics. We will watch this unit closely for changes. **Rated a Class I Defect.**

MON 55SM Hut Pump S

The motor data shows a vibration at near 54 orders with 120 Hz side bands. This is usually related to poor rotor bar connection. No immediate actions required. **Rated a Class I Defect.**

SAR55A Neutralization Pump North

The data continues to indicate distress in the inboard motor bearing. Still recommend replacing the motor in the next few months or possibly sooner. **Rated a Class II Defect for now.**

MON56 Inhibited MON transfer pump E

The overall vibration continues to grow. The pump axial vibration is still 0.39"/sec velocity peak and consists mostly of noise around 2-20 orders of shaft speed. We suspect recirculation caused by either pump wear or not running near the optimal point on the curve. The inboard horizontal also has what looks to be cavitation between 40 and 60 orders. Inspect as time allows. **Rated A Class II Defect.**

SAR66A, SAR66B, and SAR 66C Vertical Cooling Tower Pumps

These pumps all have a 1xRPM vibration at near or above 0.4"/second velocity peak. The vibration should be lowered if possible. Trim balancing might help if the unit is out. Check all fasteners for tightness and the shafts if possible, for runout. **Rated A Class I Defect.**

SAR 78A Cooling Tower Fan 1

The vibration in the motor has dropped since April: however, its still almost 0.4"/sec velocity peak. Consider a trim balance as time allows. **Rated A Class I Defect.**

SAR57B Oleum Tower Circulation Pump B

Vibration data still suggests Weak rotor bar end connections and possible wear in the motor bearings. Inspect the unit for operation in the optimal part of the pump curve. **Rated a Class I Defect.**

SAR 14 Combustion Air Fan

Fan unit still appears to have an elevated noise floor in the higher frequencies. Ensure the bearings are properly lubricated. **Rated a Class I Defect.**

ACN 36 ACH Neutralization Tank Circulation Pump

The pump still has a 4x RPM vibration in it that we believe is vane pass. The vibration is almost back up to 0.4"/sec velocity peak. We suspect wear in the pump or a process or flow issue. Could also be a coupling issue. Investigate as time allows. **Rated a Class II Defect.**

ACN13A #2 Kettle transfer pump N

The motor bearings still appear to be in some distress. Be prepared to change the motor out in the future. **Rated a Class II Defect.**

ACN28B ACN Fan E

A 1xRPM still dominates the velocity spectrum for the motor inboard vertical at near 0.48"/sec velocity peak. Inspect the motor and structure. Inspect, clean, and trim balance the fan soon if possible. **Rated a Class II Defect.**

SAR 38 Drying Tower Pump out

Pump data is dominated by a 1xRPM vibration at 0.45"/sec velocity peak in the Input horizontal. Inspect the coupling and fasteners. Perform an alignment check. Could be wear in the pump also. **Rated a Class I Defect.**

ACN 08 ACH Blend Tank

The motor bearings are showing an elevated vibration at shaft speed. Inspect the coupling, fasteners, structures and alignment in the near future. **Rated a Class II Defect.**

ACN 07 ACH Product Feed Pump South

The motor inboard bearing has a vibration at just over 6 orders and multiple harmonics of that frequency in the analysis spectrums. These vibrations suggest bearing defects; however, the vibrations have not increased over time. We will keep a close eye on this for changes. **Rated a Class I Defect.**

SAR 222 Oleum Tower Drain Pump

The pump data suggests either strong cavitation or bearing natural frequency vibrations. Data shows drop in recent data. **Rated a Class I Defect for now.**

Reported prior but not running this survey**ACN 07B ACH Product Feed Pump**

Pump cavitation seems to be what we are seeing here most likely. Check the process parameters to make sure the pump is running optimally. **Rated a Class I Defect.**

ACN14 ACH Off Grade Pump

Reported in June. Motor inboard axial shows 4.5 g's overall. Multiple vibration peaks look to be mostly non-synchronous. The motor bearings are in some distress. We will keep a close eye on this unit for changes. **Rated a Class II Defect.**

ACN13B #2 Kettle Transfer Pump South

The May inboard motor bearing is showing signs of distress. This motor looks to have a strong rotor bar vibration. We suggest replacing the motor this year. **Rated a Class II Defect.**

SAR39A Boiler Feed Water Pump NW

The April motor data shows 1x and 2x vibrations and slight rotor bar. We recommend inspecting the coupling and insert. Perform an alignment if possible. **Rated a Class I Defect.**

SAR50A Drying Tower Circulation Pump W

The outboard end of the motor is still vibrating at shaft speed.

Inspect the motor and pump for loose fasteners or coupling, and motor cooling fan for defects. Have the alignment checked also. **Rated a Class I Defect.**

Abbreviated Last Measurement Summary *****

Database: Lucite Memphis MMA.rbm
Area: MMA
Route No. 6: TJ ROUTE 1
Report Date: 03-Sep-20 10:38

MEASUREMENT POINT -----	OVERALL LEVEL -----	HFD / VHFD -----
SAR03 - Turb Comp Main Blower	(17-Aug-20)	
	OVERALL LEVEL	
5 - Turbine CPL X	.240 Mils	
6 - Turbine CPL Y	.208 Mils	
7 - Turbine Gov X	.157 Mils	
8 - Turbine Gov Y	.081 Mils	
9 - Blwr IB X	.262 Mils	
10 - Blwr IB Y	.446 Mils	
11 - Blwr OB X	.873 Mils	
12 - Blwr OB Y	1.122 Mils	
15 - Blwr HSG IB	.029 Mils	
16 - Blwr HSG OB	.034 Mils	
ACN17DP - DP Comp	(17-Aug-20)	
	OVERALL LEVEL	
21 - ACH Motor CPL	.033 Mils	
22 - ACH GB CPL	.128 Mils	
27 - ACH CMP MTR	.014 Mils	
23 - ACH CMP CPL	.063 Mils	
24 - ACH CMP OB	.035 Mils	
ACN28ADP - Cooling Twr Fan W	(17-Aug-20)	
	OVERALL LEVEL	
28 - CT Fan 1 W	.246 Mils	
ACN28BDP - Cooling Twr Fan E	(17-Aug-20)	
	OVERALL LEVEL	
26 - CT Fan 2 E	.289 Mils	
SAR55A - Neutralization Pump N	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.063 In/Sec	.676 G-s

MOP - Motor Outboard Horz Peakvue	.226 G-s	
MOV - Motor Outboard Vertical	.110 In/Sec	.120 G-s
MOA - Motor Outboard Axial	.103 In/Sec	.124 G-s
MIH - Motor Inboard Horizontal	.101 In/Sec	3.037 G-s
MIP - Motor Inboard Horz Peakvue	2.844 G-s	
MIV - Motor Inboard Vertical	.142 In/Sec	.608 G-s
MIA - Motor Inboard Axial	.088 In/Sec	.504 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.098 In/Sec	.272 G-s
PIP - Pump Inboard Horz Peakvue	.030 G-s	
PIV - Pump Inboard Vertical	.060 In/Sec	.165 G-s
PIA - Pump Inboard Axial	.042 In/Sec	.170 G-s
SAR59C - Scrub Twr Circ Pmp E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.019 In/Sec	.199 G-s
MOP - Motor Outboard Horz Peakvue	.063 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.059 G-s
MOA - Motor Outboard Axial	.041 In/Sec	.036 G-s
MIH - Motor Inboard Horizontal	.026 In/Sec	.568 G-s
MIP - Motor Inboard Horz Peakvue	.284 G-s	
MIV - Motor Inboard Vertical	.027 In/Sec	.081 G-s
MIA - Motor Inboard Axial	.028 In/Sec	.098 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.083 In/Sec	.539 G-s
PIP - Pump Inboard Horz Peakvue	.345 G-s	
PIV - Pump Inboard Vertical	.053 In/Sec	.360 G-s
PIA - Pump Inboard Axial	.063 In/Sec	.196 G-s
POH - Pump Outboard Horizontal	.056 In/Sec	.599 G-s
POP - Pump Outboard Horz Peakvue	.354 G-s	
POV - Pump Outboard Vertical	.060 In/Sec	.165 G-s
POA - Pump Outboard Axial	.055 In/Sec	.128 G-s
SAR59B - Scrub Twr Circ Pmp M	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.030 In/Sec	.446 G-s
MOP - Motor Outboard Horz Peakvue	.262 G-s	
MOV - Motor Outboard Vertical	.040 In/Sec	.208 G-s
MOA - Motor Outboard Axial	.038 In/Sec	.126 G-s
MIH - Motor Inboard Horizontal	.035 In/Sec	.678 G-s
MIP - Motor Inboard Horz Peakvue	.420 G-s	
MIV - Motor Inboard Vertical	.037 In/Sec	.380 G-s
MIA - Motor Inboard Axial	.036 In/Sec	.382 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.151 In/Sec	1.070 G-s
PIP - Pump Inboard Horz Peakvue	.709 G-s	
PIV - Pump Inboard Vertical	.070 In/Sec	.610 G-s
PIA - Pump Inboard Axial	.079 In/Sec	.615 G-s
POH - Pump Outboard Horizontal	.085 In/Sec	.930 G-s
POP - Pump Outboard Horz Peakvue	.558 G-s	
POV - Pump Outboard Vertical	.106 In/Sec	.321 G-s
POA - Pump Outboard Axial	.100 In/Sec	.300 G-s
SAR59A - Scrub Twr Circ Pmp W	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.032 In/Sec	.308 G-s
MOP - Motor Outboard Horz Peakvue	.183 G-s	

MOV - Motor Outboard Vertical	.038 In/Sec	.106 G-s
MOA - Motor Outboard Axial	.025 In/Sec	.254 G-s
MIH - Motor Inboard Horizontal	.024 In/Sec	.359 G-s
MIP - Motor Inboard Horz Peakvue	.178 G-s	
MIV - Motor Inboard Vertical	.033 In/Sec	.190 G-s
MIA - Motor Inboard Axial	.027 In/Sec	.103 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.109 In/Sec	.344 G-s
PIP - Pump Inboard Horz Peakvue	.224 G-s	
PIV - Pump Inboard Vertical	.066 In/Sec	.301 G-s
PIA - Pump Inboard Axial	.096 In/Sec	.169 G-s
POH - Pump Outboard Horizontal	.067 In/Sec	.381 G-s
POP - Pump Outboard Horz Peakvue	.167 G-s	
POV - Pump Outboard Vertical	.076 In/Sec	.171 G-s
POA - Pump Outboard Axial	.098 In/Sec	.090 G-s

SAR39D - Boiler Feed H2O Pmp SE

(18-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.062 In/Sec	.327 G-s
MOP - Motor Outboard Horz Peakvue	.022 G-s	
MOV - Motor Outboard Vertical	.043 In/Sec	.118 G-s
MOA - Motor Outboard Axial	.093 In/Sec	.068 G-s
MIH - Motor Inboard Horizontal	.049 In/Sec	.590 G-s
MIP - Motor Inboard Horz Peakvue	.100 G-s	
MIV - Motor Inboard Vertical	.051 In/Sec	.185 G-s
MIA - Motor Inboard Axial	.094 In/Sec	.168 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.132 In/Sec	1.179 G-s
PIP - Pump Inboard Horz Peakvue	.190 G-s	
PIV - Pump Inboard Vertical	.132 In/Sec	.578 G-s
PIA - Pump Inboard Axial	.092 In/Sec	.658 G-s
POH - Pump Outboard Horizontal	.063 In/Sec	.562 G-s
POP - Pump Outboard Horz Peakvue	.065 G-s	
POV - Pump Outboard Vertical	.069 In/Sec	.255 G-s
POA - Pump Outboard Axial	.073 In/Sec	.261 G-s

SAR39B - Boiler Feed H2O Pmp SW

(18-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.033 In/Sec	.424 G-s
MOP - Motor Outboard Horz Peakvue	.047 G-s	
MOV - Motor Outboard Vertical	.060 In/Sec	.257 G-s
MOA - Motor Outboard Axial	.031 In/Sec	.197 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	.701 G-s
MIP - Motor Inboard Horz Peakvue	.085 G-s	
MIV - Motor Inboard Vertical	.053 In/Sec	.443 G-s
MIA - Motor Inboard Axial	.055 In/Sec	.543 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.049 In/Sec	.286 G-s
PIP - Pump Inboard Horz Peakvue	.073 G-s	
PIV - Pump Inboard Vertical	.068 In/Sec	.247 G-s
PIA - Pump Inboard Axial	.059 In/Sec	.176 G-s
POH - Pump Outboard Horizontal	.032 In/Sec	.402 G-s
POP - Pump Outboard Horz Peakvue	.058 G-s	
POV - Pump Outboard Vertical	.053 In/Sec	.220 G-s
POA - Pump Outboard Axial	.062 In/Sec	.161 G-s

SAR54C - Weak Acid Xfer Pump S

(18-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.119 In/Sec	.437 G-s
MOP - Motor Outboard Horz Peakvue	.274 G-s	
MOV - Motor Outboard Vertical	.091 In/Sec	.049 G-s
MOA - Motor Outboard Axial	.040 In/Sec	.059 G-s
MIH - Motor Inboard Horizontal	.096 In/Sec	.979 G-s
MIP - Motor Inboard Horz Peakvue	.570 G-s	
MIV - Motor Inboard Vertical	.066 In/Sec	.101 G-s
MIA - Motor Inboard Axial	.038 In/Sec	.143 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.098 In/Sec	.183 G-s
PIP - Pump Inboard Horz Peakvue	.0044 G-s	
PIV - Pump Inboard Vertical	.047 In/Sec	.080 G-s
PIA - Pump Inboard Axial	.065 In/Sec	.138 G-s
SAR54B - Weak Acid Xfer Pump N	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.049 In/Sec	.239 G-s
MOP - Motor Outboard Horz Peakvue	.074 G-s	
MOV - Motor Outboard Vertical	.051 In/Sec	.145 G-s
MOA - Motor Outboard Axial	.057 In/Sec	.103 G-s
MIH - Motor Inboard Horizontal	.081 In/Sec	.358 G-s
MIP - Motor Inboard Horz Peakvue	.061 G-s	
MIV - Motor Inboard Vertical	.083 In/Sec	.063 G-s
MIA - Motor Inboard Axial	.089 In/Sec	.072 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.102 In/Sec	.849 G-s
PIP - Pump Inboard Horz Peakvue	.165 G-s	
PIV - Pump Inboard Vertical	.077 In/Sec	.431 G-s
PIA - Pump Inboard Axial	.095 In/Sec	.565 G-s
SAR50B - Drying Tower Circ Pump E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.096 In/Sec	.997 G-s
MOP - Motor Outboard Horz Peakvue	.454 G-s	
MOV - Motor Outboard Vertical	.126 In/Sec	.341 G-s
MOA - Motor Outboard Axial	.109 In/Sec	.203 G-s
MIH - Motor Inboard Horizontal	.065 In/Sec	.544 G-s
MIP - Motor Inboard Horz Peakvue	.213 G-s	
MIV - Motor Inboard Vertical	.122 In/Sec	.149 G-s
MIA - Motor Inboard Axial	.108 In/Sec	.138 G-s
SAR38 - Drying Tower Pumpout	(21-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.132 In/Sec	1.096 G-s
MOP - Motor Outboard Horz Peakvue	.540 G-s	
MOV - Motor Outboard Vertical	.088 In/Sec	.304 G-s
MOA - Motor Outboard Axial	.121 In/Sec	.239 G-s
MIH - Motor Inboard Horizontal	.156 In/Sec	.171 G-s
MIP - Motor Inboard Horz Peakvue	.062 G-s	
MIV - Motor Inboard Vertical	.134 In/Sec	.042 G-s
MIA - Motor Inboard Axial	.159 In/Sec	.039 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.455 In/Sec	.190 G-s
PIP - Pump Inboard Horz Peakvue	.024 G-s	
PIV - Pump Inboard Vertical	.238 In/Sec	.084 G-s
PIA - Pump Inboard Axial	.309 In/Sec	.137 G-s

SAR66E	- Vertical Cool Twr Pump #5	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W		.126 In/Sec	.222 G-s
MOP - Motor Outboard Horz Peakvue		.096 G-s	
MOV - Motor Outboard Vertical N-S		.193 In/Sec	.317 G-s
MOA - Motor Outboard Axial		.290 In/Sec	.521 G-s
MIH - Motor Inboard Horizontal E-W		.049 In/Sec	.522 G-s
MIP - Motor Inboard Horz Peakvue		.221 G-s	
MIV - Motor Inboard Vertical N-S		.115 In/Sec	.354 G-s
MIA - Motor Inboard Axial		.214 In/Sec	.266 G-s
SAR66D	- Vertical Cool Twr Pump #4	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.068 In/Sec	.078 G-s
MOP - Motor Outboard Horz Peakvue		.044 G-s	
MOV - Motor Outboard Vertical		.110 In/Sec	.049 G-s
MOA - Motor Outboard Axial		.052 In/Sec	.058 G-s
MIH - Motor Inboard Horizontal		.070 In/Sec	.084 G-s
MIP - Motor Inboard Horz Peakvue		.043 G-s	
MIV - Motor Inboard Vertical		.122 In/Sec	.069 G-s
MIA - Motor Inboard Axial		.077 In/Sec	.082 G-s
SAR66C	- Vertical Cool Twr Pump #3	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.384 In/Sec	.085 G-s
MOP - Motor Outboard Horz Peakvue		.048 G-s	
MOV - Motor Outboard Vertical		.123 In/Sec	.033 G-s
MOA - Motor Outboard Vertical		.200 In/Sec	.029 G-s
MIH - Motor Inboard Horizontal		.183 In/Sec	.066 G-s
MIP - Motor Inboard Horz Peakvue		.035 G-s	
MIV - Motor Inboard Vertical		.131 In/Sec	.049 G-s
MIA - Motor Inboard Axial		.093 In/Sec	.109 G-s
SAR66B	- Vertical Cool Twr Pump #2	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.252 In/Sec	.148 G-s
MOP - Motor Outboard Horz Peakvue		.071 G-s	
MOV - Motor Outboard Vertical		.172 In/Sec	.134 G-s
MOA - Motor Outboard Axial		.482 In/Sec	.117 G-s
MIH - Motor Inboard Horizontal		.132 In/Sec	.162 G-s
MIP - Motor Inboard Horz Peakvue		.098 G-s	
MIV - Motor Inboard Vertical		.190 In/Sec	.085 G-s
MIA - Motor Inboard Axial		.185 In/Sec	.111 G-s
SAR66A	- Vertical Cool Twr Pump #1	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.473 In/Sec	.240 G-s
MOP - Motor Outboard Horz Peakvue		.147 G-s	
MOV - Motor Outboard Vertical		.245 In/Sec	.127 G-s
MOA - Motor Outboard Axial		.471 In/Sec	.189 G-s
MIH - Motor Inboard Horizontal		.169 In/Sec	.123 G-s
MIP - Motor Inboard Horz Peakvue		.076 G-s	
MIV - Motor Inboard Vertical		.253 In/Sec	.079 G-s
MIA - Motor Inboard Axial		.186 In/Sec	.080 G-s
SAR78A	- Cooling Tower Fan #1	(18-Aug-20)	

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.209 In/Sec	.395 G-s
MOP - Motor Outboard Horz Peakvue	.165 G-s	
MOV - Motor Outboard Vertical	.390 In/Sec	.175 G-s
MOA - Motor Outboard Axial	.186 In/Sec	.162 G-s
MIH - Motor Inboard Horizontal	.138 In/Sec	.551 G-s
MIP - Motor Inboard Horz Peakvue	.382 G-s	
MIV - Motor Inboard Vertical	.120 In/Sec	.268 G-s
MIA - Motor Inboard Axial	.138 In/Sec	.261 G-s
SAR78B - Cooling Tower Fan #2	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.078 In/Sec	.701 G-s
MOP - Motor Outboard Horz Peakvue	.177 G-s	
MOV - Motor Outboard Vertical	.079 In/Sec	.098 G-s
MOA - Motor Outboard Axial	.164 In/Sec	.230 G-s
MIH - Motor Inboard Horizontal	.087 In/Sec	1.166 G-s
MIP - Motor Inboard Horz Peakvue	.184 G-s	
MIV - Motor Inboard Vertical	.104 In/Sec	.421 G-s
MIA - Motor Inboard Axial	.186 In/Sec	.138 G-s
SAR78C - Cooling Tower Fan #3	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	1.216 G-s
MOP - Motor Outboard Horz Peakvue	.507 G-s	
MOV - Motor Outboard Vertical	.064 In/Sec	.127 G-s
MOA - Motor Outboard Axial	.195 In/Sec	.110 G-s
MIH - Motor Inboard Horizontal	.068 In/Sec	1.350 G-s
MIP - Motor Inboard Horz Peakvue	.651 G-s	
MIV - Motor Inboard Vertical	.111 In/Sec	.539 G-s
MIA - Motor Inboard Axial	.171 In/Sec	.513 G-s
SAR78D - Cooling Tower Fan #4	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.081 In/Sec	.550 G-s
MOP - Motor Outboard Horz Peakvue	.270 G-s	
MOV - Motor Outboard Vertical	.148 In/Sec	.340 G-s
MOA - Motor Outboard Axial	.221 In/Sec	.263 G-s
MIH - Motor Inboard Horizontal	.118 In/Sec	.446 G-s
MIP - Motor Inboard Horz Peakvue	.302 G-s	
MIV - Motor Inboard Vertical	.189 In/Sec	.284 G-s
MIA - Motor Inboard Axial	.200 In/Sec	.206 G-s
SAR161C - N SAR Cool Twr Fan E	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.110 In/Sec	.353 G-s
MOP - Motor Outboard Horz Peakvue	.120 G-s	
MOV - Motor Outboard Vertical	.129 In/Sec	.090 G-s
MOA - Motor Outboard Axial	.222 In/Sec	.095 G-s
MIH - Motor Inboard Horizontal	.232 In/Sec	.331 G-s
MIP - Motor Inboard Horz Peakvue	.114 G-s	
MIV - Motor Inboard Vertical	.181 In/Sec	.182 G-s
MIA - Motor Inboard Axial	.241 In/Sec	.113 G-s
SAR161B - N SAR Cool Twr Fan Middle	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.113 In/Sec	.950 G-s

MOP - Motor Outboard Horz Peakvue	.279 G-s	
MOV - Motor Outboard Vertical	.155 In/Sec	.456 G-s
MOA - Motor Outboard Axial	.168 In/Sec	.492 G-s
MIH - Motor Inboard Horizontal	.099 In/Sec	.874 G-s
MIP - Motor Inboard Horz Peakvue	.281 G-s	
MIV - Motor Inboard Vertical	.123 In/Sec	.547 G-s
MIA - Motor Inboard Axial	.169 In/Sec	.548 G-s

SAR161A - N SAR Cool Twr Fan W

(20-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.126 In/Sec	.889 G-s
MOP - Motor Outboard Horz Peakvue	.482 G-s	
MOV - Motor Outboard Vertical	.159 In/Sec	.272 G-s
MOA - Motor Outboard Axial	.229 In/Sec	.210 G-s
MIH - Motor Inboard Horizontal	.249 In/Sec	2.088 G-s
MIP - Motor Inboard Horz Peakvue	1.304 G-s	
MIV - Motor Inboard Vertical	.070 In/Sec	.593 G-s
MIA - Motor Inboard Axial	.208 In/Sec	.278 G-s

SAR231A - Final Twr Circ Pump N

(18-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.068 In/Sec	.776 G-s
MOP - Motor Outboard Horz Peakvue	.412 G-s	
MOV - Motor Outboard Vertical N-S	.058 In/Sec	.536 G-s
MOA - Motor Outboard Axial	.107 In/Sec	.343 G-s
MIH - Motor Inboard Horizontal E-W	.050 In/Sec	.479 G-s
MIP - Motor Inboard Horz Peakvue	.265 G-s	
MIV - Motor Inboard Vertical N-S	.049 In/Sec	.181 G-s
MIA - Motor Inboard Axial	.075 In/Sec	.166 G-s

SAR231B - Final Twr Circ Pump S

(20-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.061 In/Sec	.594 G-s
MOP - Motor Outboard Horz Peakvue	.251 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.289 G-s
MOA - Motor Outboard Axial	.073 In/Sec	.183 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	.417 G-s
MIP - Motor Inboard Horz Peakvue	.254 G-s	
MIV - Motor Inboard Vertical	.037 In/Sec	.342 G-s
MIA - Motor Inboard Axial	.045 In/Sec	.197 G-s

SAR127 - Final Twr Pumpout Drain Pmp

(21-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.020 In/Sec	.392 G-s
MOP - Motor Outboard Horz Peakvue	.095 G-s	
MOV - Motor Outboard Vertical	.022 In/Sec	.111 G-s
MOA - Motor Outboard Axial	.025 In/Sec	.191 G-s
MIH - Motor Inboard Horizontal	.020 In/Sec	.340 G-s
MIP - Motor Inboard Horz Peakvue	.136 G-s	
MIV - Motor Inboard Vertical	.031 In/Sec	.107 G-s
MIA - Motor Inboard Axial	.031 In/Sec	.129 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.061 In/Sec	.083 G-s
PIP - Pump Inboard Horz Peakvue	.035 G-s	
PIV - Pump Inboard Vertical	.035 In/Sec	.132 G-s
PIA - Pump Inboard Axial	.075 In/Sec	.101 G-s

SAR 56A	- N Oleum Storage Tank Feed	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.058 In/Sec	.100 G-s
M1P - Motor Outboard Horz Peakvue		.019 G-s	
M1V - Motor Outboard Vertical		.095 In/Sec	.043 G-s
M1A - Motor Outboard Axial		.054 In/Sec	.029 G-s
M2H - Motor Inboard Horizontal		.074 In/Sec	.308 G-s
M2P - Motor Inboard Horz Peakvue		.097 G-s	
M2V - Motor Inboard Vertical		.084 In/Sec	.077 G-s
M2A - Motor Inboard Axial		.099 In/Sec	.048 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.069 In/Sec	.113 G-s
P1P - Pump Inboard Horz Peakvue		.069 G-s	
P1V - Pump Inboard Vertical		.041 In/Sec	.056 G-s
P1A - Pump Inboard Axial		.047 In/Sec	.038 G-s
SAR 56B	- M Oleum Storage Tank Feed	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.046 In/Sec	.266 G-s
M1P - Motor Outboard Horz Peakvue		.050 G-s	
M1V - Motor Outboard Vertical		.060 In/Sec	.107 G-s
M1A - Motor Outboard Axial		.118 In/Sec	.056 G-s
M2H - Motor Inboard Horizontal		.162 In/Sec	.171 G-s
M2P - Motor Inboard Horz Peakvue		.032 G-s	
M2V - Motor Inboard Vertical		.134 In/Sec	.047 G-s
M2A - Motor Inboard Axial		.069 In/Sec	.060 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.233 In/Sec	.170 G-s
P1P - Pump Inboard Horz Peakvue		.097 G-s	
P1V - Pump Inboard Vertical		.149 In/Sec	.053 G-s
P1A - Pump Inboard Axial		.065 In/Sec	.051 G-s
SAR 56C	- S Oleum Storage Tank Feed	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.059 In/Sec	.937 G-s
M1P - Motor Outboard Horz Peakvue		.056 G-s	
M1V - Motor Outboard Vertical		.033 In/Sec	.283 G-s
M1A - Motor Outboard Axial		.044 In/Sec	.248 G-s
M2H - Motor Inboard Horizontal		.049 In/Sec	.253 G-s
M2P - Motor Inboard Horz Peakvue		.180 G-s	
M2V - Motor Inboard Vertical		.038 In/Sec	.231 G-s
M2A - Motor Inboard Axial		.040 In/Sec	.190 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.111 In/Sec	.213 G-s
P1P - Pump Inboard Horz Peakvue		.018 G-s	
P1V - Pump Inboard Vertical		.046 In/Sec	.128 G-s
P1A - Pump Inboard Axial		.031 In/Sec	.081 G-s
SAR128	- Oleum Fume Scrub Blwr	(18-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal		.072 In/Sec	.142 G-s
MIP - Motor Inboard Horz Peakvue		.024 G-s	
MIV - Motor Inboard Vertical		.037 In/Sec	.063 G-s
MIA - Motor Inboard Axial		.064 In/Sec	.060 G-s
		OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal		.090 In/Sec	.234 G-s
FIP - Fan Inboard Horz Peakvue		.061 G-s	

FIV - Fan Inboard Vertical	.031 In/Sec	.096 G-s
FIA - Fan Inboard Axial	.052 In/Sec	.098 G-s
FOH - Fan Outboard Horizontal	.116 In/Sec	.168 G-s
FOP - Fan Outboard Horz Peakvue	.029 G-s	
FOV - Fan Outboard Vertical	.088 In/Sec	.251 G-s
FOA - Fan Outboard Axial	.131 In/Sec	.176 G-s

SAR137B - Contain Pit Pumps	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.050 In/Sec	.229 G-s
MOP - Motor Outboard Horz Peakvue	.120 G-s	
MOV - Motor Outboard Vertical N-S	.065 In/Sec	.108 G-s
MOA - Motor Outboard Axial	.077 In/Sec	.110 G-s

SAR57A - Oleum Twr Circ Pump W	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.055 In/Sec	.555 G-s
MOP - Motor Outboard Horz Peakvue	.019 G-s	
MOV - Motor Outboard Vertical N-S	.094 In/Sec	.309 G-s
MOA - Motor Outboard Axial	.050 In/Sec	.071 G-s
MIH - Motor Inboard Horizontal E-W	.081 In/Sec	1.409 G-s
MIP - Motor Inboard Horz Peakvue	.335 G-s	
MIV - Motor Inboard Vertical N-S	.110 In/Sec	1.707 G-s
MIA - Motor Inboard Axial	.057 In/Sec	.739 G-s

SAR57B - Oleum Twr Circ Pump E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.104 In/Sec	2.571 G-s
MOP - Motor Outboard Horz Peakvue	1.343 G-s	
MOV - Motor Outboard Vertical N-S	.105 In/Sec	.689 G-s
MOA - Motor Outboard Axial	.116 In/Sec	.627 G-s
MIH - Motor Inboard Horizontal E-W	.120 In/Sec	3.721 G-s
MIP - Motor Inboard Horz Peakvue	2.094 G-s	
MIV - Motor Inboard Vertical N-S	.106 In/Sec	1.071 G-s
MIA - Motor Inboard Axial	.108 In/Sec	.971 G-s

SAR37A - Interpass Twr Circ Pump N	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.052 In/Sec	.563 G-s
MOP - Motor Outboard Horz Peakvue	.335 G-s	
MOV - Motor Outboard Vertical N-S	.046 In/Sec	.120 G-s
MOA - Motor Outboard Axial	.072 In/Sec	.158 G-s
MIH - Motor Inboard Horizontal E-W	.048 In/Sec	.645 G-s
MIP - Motor Inboard Horz Peakvue	.310 G-s	
MIV - Motor Inboard Vertical N-S	.047 In/Sec	.166 G-s
MIA - Motor Inboard Axial	.050 In/Sec	.167 G-s

SAR14 - Combustion Air Fan W	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.085 In/Sec	.795 G-s
MOP - Motor Outboard Horz Peakvue	.382 G-s	
MOV - Motor Outboard Vertical	.068 In/Sec	.370 G-s
MOA - Motor Outboard Axial	.054 In/Sec	.358 G-s
MIH - Motor Inboard Horizontal	.081 In/Sec	1.700 G-s
MIP - Motor Inboard Horz Peakvue	.836 G-s	
MIV - Motor Inboard Vertical	.062 In/Sec	.894 G-s
MIA - Motor Inboard Axial	.056 In/Sec	.737 G-s

	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.092 In/Sec	1.056 G-s
FIP - Fan Inboard Horz Peakvue	.140 G-s	
FIV - Fan Inboard Vertical	.044 In/Sec	.789 G-s
FIA - Fan Inboard Axial	.101 In/Sec	.164 G-s
FOH - Fan Outboard Horizontal	.103 In/Sec	2.085 G-s
FOP - Fan Outboard Horz Peakvue	1.176 G-s	
FOV - Fan Outboard Vertical	.063 In/Sec	.836 G-s
FOA - Fan Outboard Axial	.058 In/Sec	.424 G-s
SAR11 - Recycle Fan W	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.042 In/Sec	.178 G-s
MOP - Motor Outboard Horz Peakvue	.090 G-s	
MOV - Motor Outboard Vertical	.054 In/Sec	.066 G-s
MOA - Motor Outboard Axial	.047 In/Sec	.057 G-s
MIH - Motor Inboard Horizontal	.028 In/Sec	.574 G-s
MIP - Motor Inboard Horz Peakvue	.306 G-s	
MIV - Motor Inboard Vertical	.050 In/Sec	.182 G-s
MIA - Motor Inboard Axial	.043 In/Sec	.229 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.014 In/Sec	.014 G-s
FIP - Fan Inboard Horz Peakvue	.0065 G-s	
FIV - Fan Inboard Vertical	.011 In/Sec	.0068 G-s
FIA - Fan Inboard Axial	.017 In/Sec	.0042 G-s
FOH - Fan Outboard Horizontal	.017 In/Sec	.022 G-s
FOP - Fan Outboard Horz Peakvue	.013 G-s	
FOV - Fan Outboard Vertical	.012 In/Sec	.013 G-s
FOA - Fan Outboard Axial	.036 In/Sec	.0055 G-s
SAR15 - Process Air Fan W	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.064 In/Sec	.415 G-s
MOP - Motor Outboard Horz Peakvue	.158 G-s	
MOV - Motor Outboard Vertical	.053 In/Sec	.397 G-s
MOA - Motor Outboard Axial	.052 In/Sec	.342 G-s
MIH - Motor Inboard Horizontal	.056 In/Sec	.658 G-s
MIP - Motor Inboard Horz Peakvue	.303 G-s	
MIV - Motor Inboard Vertical	.046 In/Sec	.095 G-s
MIA - Motor Inboard Axial	.051 In/Sec	.103 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.059 In/Sec	.596 G-s
FIP - Fan Inboard Horz Peakvue	.302 G-s	
FIV - Fan Inboard Vertical	.035 In/Sec	.624 G-s
FIA - Fan Inboard Axial	.048 In/Sec	.501 G-s
FOH - Fan Outboard Horizontal	.070 In/Sec	1.064 G-s
FOP - Fan Outboard Horz Peakvue	.539 G-s	
FOV - Fan Outboard Vertical	.057 In/Sec	.814 G-s
FOA - Fan Outboard Axial	.044 In/Sec	.398 G-s
SAR12 - Recycle Fan E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.114 In/Sec	.661 G-s
MOP - Motor Outboard Horz Peakvue	.131 G-s	
MOV - Motor Outboard Vertical	.128 In/Sec	.205 G-s
MOA - Motor Outboard Axial	.214 In/Sec	.134 G-s
MIH - Motor Inboard Horizontal	.115 In/Sec	1.539 G-s

MIP - Motor Inboard Horz Peakvue	1.200 G-s	
MIV - Motor Inboard Vertical	.195 In/Sec	.662 G-s
MIA - Motor Inboard Axial	.179 In/Sec	.394 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.101 In/Sec	.171 G-s
FIP - Fan Inboard Horz Peakvue	.191 G-s	
FIV - Fan Inboard Vertical	.062 In/Sec	.179 G-s
FIA - Fan Inboard Axial	.088 In/Sec	.136 G-s
FOH - Fan Outboard Horizontal	.144 In/Sec	.523 G-s
FOP - Fan Outboard Horz Peakvue	.298 G-s	
FOV - Fan Outboard Vertical	.175 In/Sec	.287 G-s
FOA - Fan Outboard Axial	.169 In/Sec	.356 G-s
SAR10 - Process Air Fan E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.167 In/Sec	.449 G-s
MOP - Motor Outboard Horz Peakvue	.246 G-s	
MOV - Motor Outboard Vertical	.118 In/Sec	.210 G-s
MOA - Motor Outboard Axial	.068 In/Sec	.288 G-s
MIH - Motor Inboard Horizontal	.169 In/Sec	1.042 G-s
MIP - Motor Inboard Horz Peakvue	.639 G-s	
MIV - Motor Inboard Vertical	.089 In/Sec	.383 G-s
MIA - Motor Inboard Axial	.103 In/Sec	.372 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.240 In/Sec	2.579 G-s
FIP - Fan Inboard Horz Peakvue	1.383 G-s	
FIV - Fan Inboard Vertical	.143 In/Sec	1.817 G-s
FIA - Fan Inboard Axial	.137 In/Sec	.748 G-s
FOH - Fan Outboard Horizontal	.283 In/Sec	1.808 G-s
FOP - Fan Outboard Horz Peakvue	1.096 G-s	
FOV - Fan Outboard Vertical	.098 In/Sec	1.020 G-s
FOA - Fan Outboard Axial	.144 In/Sec	.517 G-s
SAR13 - Combustion Air Fan E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.086 In/Sec	.610 G-s
MOP - Motor Outboard Horz Peakvue	.367 G-s	
MOV - Motor Outboard Vertical	.076 In/Sec	.253 G-s
MOA - Motor Outboard Axial	.063 In/Sec	.193 G-s
MIH - Motor Inboard Horizontal	.102 In/Sec	.472 G-s
MIP - Motor Inboard Horz Peakvue	.223 G-s	
MIV - Motor Inboard Vertical	.050 In/Sec	.156 G-s
MIA - Motor Inboard Axial	.073 In/Sec	.303 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.072 In/Sec	.403 G-s
FIP - Fan Inboard Horz Peakvue	.185 G-s	
FIV - Fan Inboard Vertical	.089 In/Sec	.443 G-s
FIA - Fan Inboard Axial	.044 In/Sec	.276 G-s
FOH - Fan Outboard Horizontal	.075 In/Sec	.414 G-s
FOP - Fan Outboard Horz Peakvue	.196 G-s	
FOV - Fan Outboard Vertical	.207 In/Sec	.236 G-s
FOA - Fan Outboard Axial	.154 In/Sec	.248 G-s
SAR61NM - Spent Acid Circ Pmp N	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.023 In/Sec	.106 G-s
MIP - Motor Inboard Horz Peakvue	.0091 G-s	

MTV - Motor Inboard Vertical	.029 In/Sec	.058 G-s
MIA - Motor Inboard Axial	.040 In/Sec	.017 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.016 In/Sec	.107 G-s
PIP - Pump Inboard Horz Peakvue	.038 G-s	
PIV - Pump Inboard Vertical	.037 In/Sec	.117 G-s
PIA - Pump Inboard Axial	.041 In/Sec	.055 G-s
SAR63WM - Spent Acid Feed Pmp W	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.032 In/Sec	.039 G-s
MOP - Motor Outboard Horz Peakvue	.0061 G-s	
MOV - Motor Outboard Vertical	.035 In/Sec	.010 G-s
MOA - Motor Outboard Axial	.045 In/Sec	.013 G-s
MIH - Motor Inboard Horizontal	.042 In/Sec	.335 G-s
MIP - Motor Inboard Horz Peakvue	.024 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.093 G-s
MIA - Motor Inboard Axial	.031 In/Sec	.084 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.060 In/Sec	.525 G-s
PIP - Pump Inboard Horz Peakvue	.117 G-s	
PIV - Pump Inboard Vertical	.052 In/Sec	.348 G-s
PIA - Pump Inboard Axial	.060 In/Sec	.210 G-s
SAR135 - Spent Acid Circ Pmp E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.036 In/Sec	.113 G-s
MOP - Motor Outboard Horz Peakvue	.0058 G-s	
MOV - Motor Outboard Vertical	.051 In/Sec	.018 G-s
MOA - Motor Outboard Axial	.046 In/Sec	.0066 G-s
MIH - Motor Inboard Horizontal	.041 In/Sec	.444 G-s
MIP - Motor Inboard Horz Peakvue	.050 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.121 G-s
MIA - Motor Inboard Axial	.047 In/Sec	.118 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.066 In/Sec	.181 G-s
PIP - Pump Inboard Horz Peakvue	.035 G-s	
PIV - Pump Inboard Vertical	.084 In/Sec	.032 G-s
PIA - Pump Inboard Axial	.048 In/Sec	.065 G-s
POH - Pump Outboard Horizontal	.063 In/Sec	.372 G-s
POP - Pump Outboard Horz Peakvue	.160 G-s	
POV - Pump Outboard Vertical	.048 In/Sec	.169 G-s
POA - Pump Outboard Axial	.039 In/Sec	.242 G-s
SAR63EM - Spent Acid Feed Pmp E	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.027 In/Sec	.181 G-s
MOP - Motor Outboard Horz Peakvue	.0055 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.145 G-s
MOA - Motor Outboard Axial	.067 In/Sec	.034 G-s
MIH - Motor Inboard Horizontal	.028 In/Sec	.182 G-s
MIP - Motor Inboard Horz Peakvue	.013 G-s	
MIV - Motor Inboard Vertical	.034 In/Sec	.041 G-s
MIA - Motor Inboard Axial	.042 In/Sec	.028 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.037 In/Sec	.140 G-s
PIP - Pump Inboard Horz Peakvue	.013 G-s	

PIV - Pump Inboard Vertical	.022 In/Sec	.086 G-s
PIA - Pump Inboard Axial	.018 In/Sec	.053 G-s
SAR156 - Spent Acid Feed Booster N		
	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.184 In/Sec	.903 G-s
MIP - Motor Inboard Horz Peakvue	.634 G-s	
MIV - Motor Inboard Vertical	.291 In/Sec	.292 G-s
MIA - Motor Inboard Axial	.298 In/Sec	.218 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.156 In/Sec	.128 G-s
PIP - Pump Inboard Horz Peakvue	.082 G-s	
PIV - Pump Inboard Vertical	.138 In/Sec	.182 G-s
PIA - Pump Inboard Axial	.080 In/Sec	.107 G-s
MON168 - A/B Booster Pump E		
	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.105 In/Sec	.228 G-s
MOP - Motor Outboard Horz Peakvue	.119 G-s	
MOV - Motor Outboard Vertical	.029 In/Sec	.086 G-s
MOA - Motor Outboard Axial	.033 In/Sec	.062 G-s
MIH - Motor Inboard Horizontal	.083 In/Sec	.237 G-s
MIP - Motor Inboard Horz Peakvue	.147 G-s	
MIV - Motor Inboard Vertical	.030 In/Sec	.127 G-s
MIA - Motor Inboard Axial	.051 In/Sec	.118 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.153 In/Sec	.174 G-s
PIP - Pump Inboard Horz Peakvue	.101 G-s	
PIV - Pump Inboard Vertical	.035 In/Sec	.133 G-s
PIA - Pump Inboard Axial	.089 In/Sec	.089 G-s
MON73W - Skim Tub Xfer Pmp W		
	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.046 In/Sec	.245 G-s
MOP - Motor Outboard Horz Peakvue	.0078 G-s	
MOV - Motor Outboard Vertical	.050 In/Sec	.054 G-s
MOA - Motor Outboard Axial	.053 In/Sec	.035 G-s
MIH - Motor Inboard Horizontal	.044 In/Sec	.457 G-s
MIP - Motor Inboard Horz Peakvue	.179 G-s	
MIV - Motor Inboard Vertical	.054 In/Sec	.269 G-s
MIA - Motor Inboard Axial	.074 In/Sec	.490 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.042 In/Sec	.057 G-s
PIP - Pump Inboard Horz Peakvue	.034 G-s	
PIV - Pump Inboard Vertical	.027 In/Sec	.036 G-s
PIA - Pump Inboard Axial	.025 In/Sec	.041 G-s
MON45WM - ACH Ref Brine Pump W		
	(18-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.039 In/Sec	1.286 G-s
MOP - Motor Outboard Horz Peakvue	.590 G-s	
MOV - Motor Outboard Vertical	.059 In/Sec	.393 G-s
MOA - Motor Outboard Axial	.089 In/Sec	.217 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	1.299 G-s
MIP - Motor Inboard Horz Peakvue	.636 G-s	
MIV - Motor Inboard Vertical	.084 In/Sec	.473 G-s
MIA - Motor Inboard Axial	.090 In/Sec	.318 G-s

	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.237 In/Sec	.593 G-s
PIP - Pump Inboard Horz Peakvue	.291 G-s	
PIV - Pump Inboard Vertical	.134 In/Sec	.160 G-s
PIA - Pump Inboard Axial	.111 In/Sec	.187 G-s
POH - Pump Outboard Horizontal	.115 In/Sec	1.259 G-s
POP - Pump Outboard Horz Peakvue	.702 G-s	
POV - Pump Outboard Vertical	.121 In/Sec	.381 G-s
POA - Pump Outboard Axial	.089 In/Sec	.315 G-s

AC17 - Carrier Ref Unit

(20-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.022 In/Sec	.104 G-s
MOP - Motor Outboard Horz Peakvue	.023 G-s	
MOV - Motor Outboard Vertical	.030 In/Sec	.085 G-s
MOA - Motor Outboard Axial	.014 In/Sec	.028 G-s
MIH - Motor Inboard Horizontal	.026 In/Sec	.161 G-s
MIP - Motor Inboard Horz Peakvue	.024 G-s	
MIV - Motor Inboard Vertical	.024 In/Sec	.149 G-s
MIA - Motor Inboard Axial	.018 In/Sec	.141 G-s
IIH - Inboard Input Horizontal	.161 In/Sec	
IIP - Input Inboard Horizontal PK	.709 G-s	
IIV - Inboard Input Vertical	.085 In/Sec	
IIA - Inboard Input Axial	.096 In/Sec	
OOH - Output Outboard Horizontal	.144 In/Sec	
OOP - Output Outboard Horizontal PK	1.028 G-s	
OOV - Output Outboard Vertical	.067 In/Sec	
OOA - Output Outboard Axial	.087 In/Sec	
CIH - Compressor Inboard Horizontal	.078 In/Sec	
CIP - Compressor Inboard Horz Peakvue	.636 G-s	
CTV - Compressor Inboard Vertical	.111 In/Sec	
CIA - Compressor Inboard Axial	.046 In/Sec	
COH - Compressor Outboard Horizontal	.038 In/Sec	
COP - Compressor Outboard Horz Peakvue	.476 G-s	
COV - Compressor Outboard Vertical	.045 In/Sec	
COA - Compressor Outboard Axial	.049 In/Sec	

ACN44 - ACN Ref Unit Booster #3

(20-Aug-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.098 In/Sec	1.756 G-s
MOP - Motor Outboard Horz Peakvue	.051 G-s	
MOV - Motor Outboard Vertical	.170 In/Sec	.400 G-s
MOA - Motor Outboard Axial	.105 In/Sec	.515 G-s
MIH - Motor Inboard Horizontal	.091 In/Sec	.499 G-s
MIP - Motor Inboard Horz Peakvue	.044 G-s	
MIV - Motor Inboard Vertical	.116 In/Sec	.192 G-s
MIA - Motor Inboard Axial	.096 In/Sec	.206 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.105 In/Sec	.892 G-s
PIP - Pump Inboard Horz Peakvue	.385 G-s	
PIV - Pump Inboard Vertical	.167 In/Sec	.349 G-s
PIA - Pump Inboard Axial	.139 In/Sec	.258 G-s
POH - Pump Outboard Horizontal	.098 In/Sec	.412 G-s
POP - Pump Outboard Horz Peakvue	.178 G-s	
POV - Pump Outboard Vertical	.177 In/Sec	.174 G-s
POA - Pump Outboard Axial	.140 In/Sec	.131 G-s

Clarification Of Vibration Units:

Acc --> G-s RMS
Vel --> In/Sec PK
Dsp --> Mils P-P

Abbreviated Last Measurement

Summary

Database: Lucite Memphis MMA.rbm
Area: MMA
Route No. 7: TJ ROUTE 2
Report Date: 03-Sep-20 10:39

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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MON80 - Uninhibited Mon Tank Pump N	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.047 In/Sec	.193 G-s
MOP - Motor Outboard Horz Peakvue	.011 G-s	
MOV - MotorOutboard Vertical	.051 In/Sec	.534 G-s
MOA - Motor Outboard Axial	.111 In/Sec	.200 G-s
MIH - Motor Inboard Horizontal	.093 In/Sec	.228 G-s
MIP - Motor Inboard Horz Peakvue	.0056 G-s	
MIV - Motor Inboard Vertical	.123 In/Sec	.098 G-s
MIA - Motor Inboard Axial	.118 In/Sec	.016 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.150 In/Sec	.099 G-s
PIP - Pump Inboard Horz Peakvue	.0030 G-s	
PIV - Pump Inboard Vertical	.042 In/Sec	.082 G-s
PIA - Pump Inboard Axial	.067 In/Sec	.080 G-s
MON81 - Uninhibited Mon Tank Pump S	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.051 In/Sec	.148 G-s
MOP - Motor Outboard Horz Peakvue	.0075 G-s	
MOV - MotorOutboard Vertical	.043 In/Sec	.066 G-s
MOA - Motor Outboard Axial	.043 In/Sec	.025 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	.183 G-s
MIP - Motor Inboard Horz Peakvue	.027 G-s	
MIV - Motor Inboard Vertical	.038 In/Sec	.051 G-s
MIA - Motor Inboard Axial	.042 In/Sec	.057 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.232 In/Sec	.414 G-s
PIP - Pump Inboard Horz Peakvue	.038 G-s	
PIV - Pump Inboard Vertical	.176 In/Sec	.199 G-s
PIA - Pump Inboard Axial	.130 In/Sec	.140 G-s
MON56 - Inhibited Mon Xfer Pump E	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	.350 G-s
MOP - Motor Outboard Horz Peakvue	.020 G-s	
MOV - Motor Outboard Vertical	.070 In/Sec	.047 G-s
MOA - Motor Outboard Axial	.103 In/Sec	.080 G-s
MIH - Motor Inboard Horizontal	.099 In/Sec	.313 G-s
MIP - Motor Inboard Horz Peakvue	.077 G-s	
MIV - Motor Inboard Vertical	.065 In/Sec	.085 G-s

MIA - Motor Inboard Axial	.119 In/Sec	.070 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.315 In/Sec	1.228 G-s
PIP - Pump Inboard Horz Peakvue	.107 G-s	
PIV - Pump Inboard Vertical	.251 In/Sec	.640 G-s
PIA - Pump Inboard Axial	.398 In/Sec	.497 G-s
MON40 - Acetone Pump	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.028 In/Sec	.479 G-s
MOP - Motor Outboard Horz Peakvue	.060 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.153 G-s
MOA - Motor Outboard Axial	.017 In/Sec	.076 G-s
MIH - Motor Inboard Horizontal	.026 In/Sec	1.100 G-s
MIP - Motor Inboard Horz Peakvue	.149 G-s	
MIV - Motor Inboard Vertical	.039 In/Sec	.120 G-s
MIA - Motor Inboard Axial	.043 In/Sec	.139 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.131 In/Sec	.734 G-s
PIP - Pump Inboard Horz Peakvue	.087 G-s	
PIV - Pump Inboard Vertical	.112 In/Sec	.779 G-s
PIA - Pump Inboard Axial	.134 In/Sec	.445 G-s
ACN08 - ACH Blend Tank	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.043 In/Sec	.153 G-s
MOP - Motor Outboard Horz Peakvue	.014 G-s	
MOV - Motor Outboard Vertical	.426 In/Sec	.094 G-s
MOA - Motor Outboard Axial	.169 In/Sec	.049 G-s
MIH - Motor Inboard Horizontal	.087 In/Sec	.203 G-s
MIP - Motor Inboard Horz Peakvue	.030 G-s	
MIV - Motor Inboard Vertical	.328 In/Sec	.064 G-s
MIA - Motor Inboard Axial	.188 In/Sec	.036 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.094 In/Sec	.424 G-s
PIP - Pump Inboard Horz Peakvue	.122 G-s	
PIV - Pump Inboard Vertical	.070 In/Sec	.135 G-s
PIA - Pump Inboard Axial	.073 In/Sec	.125 G-s
ACN07C - ACH Prod Feed Pump S	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.089 In/Sec	.988 G-s
MOP - Motor Outboard Horz Peakvue	.487 G-s	
MOV - Motor Outboard Vertical	.103 In/Sec	.400 G-s
MOA - Motor Outboard Axial	.137 In/Sec	.283 G-s
MIH - Motor Inboard Horizontal	.070 In/Sec	2.337 G-s
MIP - Motor Inboard Horz Peakvue	.605 G-s	
MIV - Motor Inboard Vertical	.076 In/Sec	.557 G-s
MIA - Motor Inboard Axial	.060 In/Sec	.470 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.187 In/Sec	1.681 G-s
PIP - Pump Inboard Horz Peakvue	.331 G-s	
PIV - Pump Inboard Vertical	.209 In/Sec	.739 G-s
PIA - Pump Inboard Axial	.157 In/Sec	.935 G-s
MON85E - Water Treatment Pmp E	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz

MOH - Motor Outboard Horizontal	.175 In/Sec	.680 G-s
MOP - Motor Outboard Horz Peakvue	.181 G-s	
MOV - Motor Outboard Vertical	.094 In/Sec	.211 G-s
MOA - Motor Outboard Axial	.087 In/Sec	.147 G-s
MIH - Motor Inboard Horizontal	.150 In/Sec	.390 G-s
MIP - Motor Inboard Horz Peakvue	.094 G-s	
MIV - Motor Inboard Vertical	.127 In/Sec	.073 G-s
MIA - Motor Inboard Axial	.134 In/Sec	.044 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.148 In/Sec	.629 G-s
PIP - Pump Inboard Horz Peakvue	.427 G-s	
PIV - Pump Inboard Vertical	.144 In/Sec	.443 G-s
PIA - Pump Inboard Axial	.101 In/Sec	.265 G-s
MON85W - Water Treatment Pmp W	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.107 In/Sec	.398 G-s
MOP - Motor Outboard Horz Peakvue	.094 G-s	
MOV - Motor Outboard Vertical	.162 In/Sec	.206 G-s
MOA - Motor Outboard Axial	.129 In/Sec	.128 G-s
MIH - Motor Inboard Horizontal	.111 In/Sec	.361 G-s
MIP - Motor Inboard Horz Peakvue	.162 G-s	
MIV - Motor Inboard Vertical	.104 In/Sec	.213 G-s
MIA - Motor Inboard Axial	.125 In/Sec	.114 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.130 In/Sec	.571 G-s
PIP - Pump Inboard Horz Peakvue	.421 G-s	
PIV - Pump Inboard Vertical	.137 In/Sec	.437 G-s
PIA - Pump Inboard Axial	.118 In/Sec	.354 G-s
ACN28B - ACN Fan E	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.228 In/Sec	1.040 G-s
MOP - Motor Outboard Horz Peakvue	.366 G-s	
MOV - Motor Outboard Vertical	.230 In/Sec	.350 G-s
MOA - Motor Outboard Axial	.120 In/Sec	.144 G-s
MIH - Motor Inboard Horizontal	.246 In/Sec	.989 G-s
MIP - Motor Inboard Horz Peakvue	.432 G-s	
MIV - Motor Inboard Vertical	.478 In/Sec	.286 G-s
MIA - Motor Inboard Axial	.122 In/Sec	.399 G-s
ACN28A - ACN Fan W	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.122 In/Sec	.585 G-s
MOP - Motor Outboard Horz Peakvue	.195 G-s	
MOV - Motor Outboard Vertical	.212 In/Sec	.270 G-s
MOA - Motor Outboard Axial	.197 In/Sec	.129 G-s
MIH - Motor Inboard Horizontal	.254 In/Sec	1.368 G-s
MIP - Motor Inboard Horz Peakvue	.367 G-s	
MIV - Motor Inboard Vertical	.153 In/Sec	.590 G-s
MIA - Motor Inboard Axial	.214 In/Sec	.312 G-s
ACN29C - ACN Cool Twr Pump S	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.050 In/Sec	.660 G-s
MOP - Motor Outboard Horz Peakvue	.306 G-s	
MOV - Motor Outboard Vertical	.069 In/Sec	.246 G-s

MOA - Motor Outboard Axial	.048 In/Sec	.196 G-s
MIH - Motor Inboard Horizontal	.041 In/Sec	.468 G-s
MIP - Motor Inboard Horz Peakvue	.197 G-s	
MIT - Motor Inboard Vertical	.060 In/Sec	.309 G-s
MIA - Motor Inboard Axial	.040 In/Sec	.278 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.165 In/Sec	.778 G-s
PIP - Pump Inboard Horz Peakvue	.433 G-s	
PIV - Pump Inboard Vertical	.151 In/Sec	1.018 G-s
PIA - Pump Inboard Axial	.132 In/Sec	.748 G-s
POH - Pump Outboard Horizontal	.092 In/Sec	1.307 G-s
POP - Pump Outboard Horz Peakvue	.319 G-s	
POV - Pump Outboard Vertical	.091 In/Sec	.313 G-s
POA - Pump Outboard Axial	.100 In/Sec	.304 G-s

ACN29B - ACN Cool Twr Pump M	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.051 In/Sec	.687 G-s
MOP - Motor Outboard Horz Peakvue	.331 G-s	
MOV - Motor Outboard Vertical	.050 In/Sec	.223 G-s
MOA - Motor Outboard Axial	.059 In/Sec	.176 G-s
MIH - Motor Inboard Horizontal	.052 In/Sec	1.087 G-s
MIP - Motor Inboard Horz Peakvue	.305 G-s	
MIT - Motor Inboard Vertical	.070 In/Sec	.245 G-s
MIA - Motor Inboard Axial	.062 In/Sec	.264 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.160 In/Sec	.432 G-s
PIP - Pump Inboard Horz Peakvue	.289 G-s	
PIV - Pump Inboard Vertical	.087 In/Sec	.134 G-s
PIA - Pump Inboard Axial	.107 In/Sec	.174 G-s
POH - Pump Outboard Horizontal	.082 In/Sec	.742 G-s
POP - Pump Outboard Horz Peakvue	.537 G-s	
POV - Pump Outboard Vertical	.097 In/Sec	.156 G-s
POA - Pump Outboard Axial	.105 In/Sec	.251 G-s

ACN29A - ACN Cool Twr Pump N	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.061 In/Sec	.908 G-s
MOP - Motor Outboard Horz Peakvue	.167 G-s	
MOV - Motor Outboard Vertical	.050 In/Sec	.426 G-s
MOA - Motor Outboard Axial	.038 In/Sec	.300 G-s
MIH - Motor Inboard Horizontal	.087 In/Sec	1.537 G-s
MIP - Motor Inboard Horz Peakvue	.205 G-s	
MIT - Motor Inboard Vertical	.059 In/Sec	.365 G-s
MIA - Motor Inboard Axial	.074 In/Sec	1.001 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.212 In/Sec	.375 G-s
PIP - Pump Inboard Horz Peakvue	.120 G-s	
PIV - Pump Inboard Vertical	.121 In/Sec	.151 G-s
PIA - Pump Inboard Axial	.144 In/Sec	.164 G-s
POH - Pump Outboard Horizontal	.091 In/Sec	.988 G-s
POP - Pump Outboard Horz Peakvue	.609 G-s	
POV - Pump Outboard Vertical	.079 In/Sec	.389 G-s
POA - Pump Outboard Axial	.129 In/Sec	.278 G-s

ACN36 - ACH Neut Tank Circ Pmp	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz

MIH - Motor Inboard Horizontal	.116 In/Sec	.372 G-s
MIP - Motor Inboard Horz Peakvue	.066 G-s	
MIV - Motor Inboard Vertical	.098 In/Sec	.126 G-s
MIA - Motor Inboard Axial	.129 In/Sec	.056 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.388 In/Sec	.145 G-s
PIP - Pump Inboard Horz Peakvue	.016 G-s	
PIV - Pump Inboard Vertical	.244 In/Sec	.140 G-s
PIA - Pump Inboard Axial	.460 In/Sec	.233 G-s
ACN12 - #1 Kettle Xfer Pump	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.047 In/Sec	.327 G-s
MOP - Motor Outboard Horz Peakvue	.047 G-s	
MOV - Motor Outboard Vertical	.098 In/Sec	.147 G-s
MOA - Motor Outboard Axial	.059 In/Sec	.102 G-s
MIH - Motor Inboard Horizontal	.034 In/Sec	.617 G-s
MIP - Motor Inboard Horz Peakvue	.091 G-s	
MIV - Motor Inboard Vertical	.072 In/Sec	.235 G-s
MIA - Motor Inboard Axial	.052 In/Sec	.127 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.054 In/Sec	.110 G-s
PIP - Pump Inboard Horz Peakvue	.022 G-s	
PIV - Pump Inboard Vertical	.053 In/Sec	.127 G-s
PIA - Pump Inboard Axial	.052 In/Sec	.140 G-s
ACN10 - #1 Kettle Circ Pmp	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.021 In/Sec	.345 G-s
MOP - Motor Outboard Horz Peakvue	.185 G-s	
MOV - Motor Outboard Vertical	.032 In/Sec	.186 G-s
MOA - Motor Outboard Axial	.028 In/Sec	.105 G-s
MIH - Motor Inboard Horizontal	.023 In/Sec	.520 G-s
MIP - Motor Inboard Horz Peakvue	.215 G-s	
MIV - Motor Inboard Vertical	.026 In/Sec	.211 G-s
MIA - Motor Inboard Axial	.020 In/Sec	.170 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.048 In/Sec	.224 G-s
PIP - Pump Inboard Horz Peakvue	.180 G-s	
PIV - Pump Inboard Vertical	.046 In/Sec	.155 G-s
PIA - Pump Inboard Axial	.035 In/Sec	.141 G-s
ACN13A - #2 Kettle Xfer Pump N	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.124 In/Sec	.916 G-s
MOP - Motor Outboard Horz Peakvue	.224 G-s	
MOV - Motor Outboard Vertical	.113 In/Sec	.451 G-s
MOA - Motor Outboard Axial	.099 In/Sec	.740 G-s
MIH - Motor Inboard Horizontal	.139 In/Sec	3.111 G-s
MIP - Motor Inboard Horz Peakvue	.337 G-s	
MIV - Motor Inboard Vertical	.101 In/Sec	.851 G-s
MIA - Motor Inboard Axial	.121 In/Sec	.646 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.078 In/Sec	.734 G-s
PIP - Pump Inboard Horz Peakvue	.118 G-s	
PIV - Pump Inboard Vertical	.087 In/Sec	.614 G-s
PIA - Pump Inboard Axial	.062 In/Sec	.490 G-s

ACN11	- #2 Kettle Circ Pump	(20-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.023 In/Sec	.560 G-s
MOP - Motor Outboard Horz Peakvue		.292 G-s	
MOV - Motor Outboard Vertical		.038 In/Sec	.167 G-s
MOA - Motor Outboard Axial		.041 In/Sec	.108 G-s
MIH - Motor Inboard Horizontal		.022 In/Sec	.582 G-s
MIP - Motor Inboard Horz Peakvue		.322 G-s	
MIV - Motor Inboard Vertical		.045 In/Sec	.128 G-s
MIA - Motor Inboard Axial		.033 In/Sec	.147 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.043 In/Sec	.270 G-s
PIP - Pump Inboard Horz Peakvue		.180 G-s	
PIV - Pump Inboard Vertical		.100 In/Sec	.218 G-s
PIA - Pump Inboard Axial		.025 In/Sec	.144 G-s
ACN09	- ACH Flash Tank Pump	(20-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.111 In/Sec	.434 G-s
MOP - Motor Outboard Horz Peakvue		.023 G-s	
MOV - Motor Outboard Vertical		.096 In/Sec	.206 G-s
MOA - Motor Outboard Axial		.086 In/Sec	.128 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.060 In/Sec	.241 G-s
PIP - Pump Inboard Horz Peakvue		.062 G-s	
PIV - Pump Inboard Vertical		.069 In/Sec	.373 G-s
PIA - Pump Inboard Axial		.049 In/Sec	.276 G-s
ACN16	- ACH Scrub Circ PumpN	(20-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.073 In/Sec	.229 G-s
MOP - Motor Outboard Horz Peakvue		.100 G-s	
MOV - Motor Outboard Vertical		.031 In/Sec	.123 G-s
MOA - Motor Outboard Axial		.067 In/Sec	.090 G-s
MIH - Motor Inboard Horizontal		.055 In/Sec	.328 G-s
MIP - Motor Inboard Horz Peakvue		.172 G-s	
MIV - Motor Inboard Vertical		.055 In/Sec	.169 G-s
MIA - Motor Inboard Axial		.053 In/Sec	.073 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.146 In/Sec	.331 G-s
PIP - Pump Inboard Horz Peakvue		.257 G-s	
PIV - Pump Inboard Vertical		.076 In/Sec	.114 G-s
PIA - Pump Inboard Axial		.073 In/Sec	.103 G-s
ACN30	- ACH Scrubber Xfer Pmp	(20-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.044 In/Sec	.391 G-s
MOP - Motor Outboard Horz Peakvue		.222 G-s	
MOV - Motor Outboard Vertical		.057 In/Sec	.165 G-s
MOA - Motor Outboard Axial		.102 In/Sec	.143 G-s
MIH - Motor Inboard Horizontal		.056 In/Sec	.518 G-s
MIP - Motor Inboard Horz Peakvue		.406 G-s	
MIV - Motor Inboard Vertical		.082 In/Sec	.204 G-s
MIA - Motor Inboard Axial		.085 In/Sec	.141 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.045 In/Sec	.116 G-s

PIP - Pump Inboard Horz Peakvue	.096 G-s	
PIV - Pump Inboard Vertical	.058 In/Sec	.080 G-s
PIA - Pump Inboard Axial	.041 In/Sec	.075 G-s

ACN05B - Topp Column Xfer Pmp E	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.087 In/Sec	.319 G-s
MOP - Motor Outboard Horz Peakvue	.073 G-s	
MOV - Motor Outboard Vertical	.062 In/Sec	.151 G-s
MOA - Motor Outboard Axial	.101 In/Sec	.069 G-s
MIH - Motor Inboard Horizontal	.084 In/Sec	1.184 G-s
MIP - Motor Inboard Horz Peakvue	.116 G-s	
MIV - Motor Inboard Vertical	.044 In/Sec	.137 G-s
MIA - Motor Inboard Axial	.031 In/Sec	.122 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.104 In/Sec	1.260 G-s
PIP - Pump Inboard Horz Peakvue	.456 G-s	
PIV - Pump Inboard Vertical	.135 In/Sec	.683 G-s
PIA - Pump Inboard Axial	.076 In/Sec	.508 G-s

ACN04 - Topping Col Circ Pump	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.030 In/Sec	.201 G-s
MOP - Motor Outboard Horz Peakvue	.107 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.066 G-s
MOA - Motor Outboard Axial	.040 In/Sec	.061 G-s
MIH - Motor Inboard Horizontal	.023 In/Sec	.485 G-s
MIP - Motor Inboard Horz Peakvue	.308 G-s	
MIV - Motor Inboard Vertical	.029 In/Sec	.174 G-s
MIA - Motor Inboard Axial	.030 In/Sec	.093 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.123 In/Sec	.368 G-s
PIP - Pump Inboard Horz Peakvue	.246 G-s	
PIV - Pump Inboard Vertical	.057 In/Sec	.239 G-s
PIA - Pump Inboard Axial	.056 In/Sec	.267 G-s
POH - Pump Outboard Horizontal	.061 In/Sec	.416 G-s
POP - Pump Outboard Horz Peakvue	.267 G-s	
POV - Pump Outboard Vertical	.070 In/Sec	.131 G-s
POA - Pump Outboard Axial	.054 In/Sec	.114 G-s

MON38CNM - LBS Tails Pump N	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.045 In/Sec	.474 G-s
MOP - Motor Outboard Horz Peakvue	.039 G-s	
MOV - Motor Outboard Vertical	.096 In/Sec	.133 G-s
MOA - Motor Outboard Axial	.053 In/Sec	.115 G-s
MIH - Motor Inboard Horizontal	.045 In/Sec	.677 G-s
MIP - Motor Inboard Horz Peakvue	.130 G-s	
MIV - Motor Inboard Vertical	.080 In/Sec	.134 G-s
MIA - Motor Inboard Axial	.051 In/Sec	.077 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.080 In/Sec	1.485 G-s
PIP - Pump Inboard Horz Peakvue	.306 G-s	
PIV - Pump Inboard Vertical	.089 In/Sec	.719 G-s
PIA - Pump Inboard Axial	.066 In/Sec	.495 G-s

MON38CSM - LBS Tails Pump S	(17-Aug-20)	
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	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.035 In/Sec	.202 G-s
MOP - Motor Outboard Horz Peakvue	.037 G-s	
MOV - Motor Outboard Vertical	.041 In/Sec	.076 G-s
MOA - Motor Outboard Axial	.050 In/Sec	.114 G-s
MIH - Motor Inboard Horizontal	.050 In/Sec	.662 G-s
MIP - Motor Inboard Horz Peakvue	.043 G-s	
MIV - Motor Inboard Vertical	.056 In/Sec	.083 G-s
MIA - Motor Inboard Axial	.041 In/Sec	.049 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.085 In/Sec	.353 G-s
PIP - Pump Inboard Horz Peakvue	.029 G-s	
PIV - Pump Inboard Vertical	.064 In/Sec	.162 G-s
PIA - Pump Inboard Axial	.057 In/Sec	.126 G-s
MON 63W - LBS Side Stream Pump W	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.074 In/Sec	.830 G-s
M1P - Motor Outboard Horz Peakvue	.031 G-s	
M1V - Motor Outboard Vertical	.092 In/Sec	.673 G-s
M1A - Motor Outboard Axial	.104 In/Sec	.946 G-s
M2H - Motor Inboard Horizontal	.067 In/Sec	1.141 G-s
M2P - Motor Inboard Horz Peakvue	.071 G-s	
M2V - Motor Inboard Vertical	.136 In/Sec	.333 G-s
M2A - Motor Inboard Axial	.109 In/Sec	.264 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.293 In/Sec	.606 G-s
P1P - Pump Inboard Horz Peakvue	.192 G-s	
P1V - Pump Inboard Vertical	.182 In/Sec	.833 G-s
P1A - Pump Inboard Axial	.204 In/Sec	.900 G-s
MON 63E - LBS Side Stream Pump E	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.105 In/Sec	.682 G-s
M1P - Motor Outboard Horz Peakvue	.016 G-s	
M1V - Motor Outboard Vertical	.266 In/Sec	.163 G-s
M1A - Motor Outboard Axial	.184 In/Sec	.251 G-s
M2H - Motor Inboard Horizontal	.163 In/Sec	.812 G-s
M2P - Motor Inboard Horz Peakvue	.069 G-s	
M2V - Motor Inboard Vertical	.297 In/Sec	.343 G-s
M2A - Motor Inboard Axial	.145 In/Sec	.285 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.222 In/Sec	.510 G-s
P1P - Pump Inboard Horz Peakvue	.097 G-s	
P1V - Pump Inboard Vertical	.231 In/Sec	.349 G-s
P1A - Pump Inboard Axial	.163 In/Sec	.297 G-s
MON132 - Decanter Feed Pmp Spare	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.083 In/Sec	.145 G-s
MOP - Motor Outboard Horz Peakvue	.018 G-s	
MOV - Motor Outboard Vertical	.103 In/Sec	.045 G-s
MOA - Motor Outboard Axial	.221 In/Sec	.043 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	.263 G-s
MIP - Motor Inboard Horz Peakvue	.087 G-s	
MIV - Motor Inboard Vertical	.110 In/Sec	.108 G-s
MIA - Motor Inboard Axial	.124 In/Sec	.075 G-s

	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.152 In/Sec	.767 G-s
PIP - Pump Inboard Horz Peakvue	.190 G-s	
PIV - Pump Inboard Vertical	.356 In/Sec	.362 G-s
PIA - Pump Inboard Axial	.070 In/Sec	.333 G-s
MON50 - Decanter Feed Pump	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.054 In/Sec	.436 G-s
MOP - Motor Outboard Horz Peakvue	.084 G-s	
MOV - Motor Outboard Vertical	.048 In/Sec	.326 G-s
MOA - Motor Outboard Axial	.092 In/Sec	.177 G-s
MIH - Motor Inboard Horizontal	.055 In/Sec	.462 G-s
MIP - Motor Inboard Horz Peakvue	.070 G-s	
MIV - Motor Inboard Vertical	.055 In/Sec	.266 G-s
MIA - Motor Inboard Axial	.083 In/Sec	.095 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.245 In/Sec	.700 G-s
PIP - Pump Inboard Horz Peakvue	.173 G-s	
PIV - Pump Inboard Vertical	.204 In/Sec	.262 G-s
PIA - Pump Inboard Axial	.198 In/Sec	.844 G-s
MON 51 - WCM Tails Swing/Spare Pmp	(20-Aug-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.082 In/Sec	.103 G-s
M1P - Motor Outboard Horz Peakvue	.013 G-s	
M1V - Motor Outboard Vertical	.028 In/Sec	.037 G-s
M1A - Motor Outboard Axial	.028 In/Sec	.043 G-s
M2H - Motor Inboard Horizontal	.081 In/Sec	.400 G-s
M2P - Motor Inboard Horz Peakvue	.046 G-s	
M2V - Motor Inboard Vertical	.036 In/Sec	.092 G-s
M2A - Motor Inboard Axial	.034 In/Sec	.060 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.133 In/Sec	.221 G-s
P1P - Pump Inboard Horz Peakvue	.019 G-s	
P1V - Pump Inboard Vertical	.058 In/Sec	.186 G-s
P1A - Pump Inboard Axial	.098 In/Sec	.098 G-s
P2H - Pump Outboard Horizontal	.133 In/Sec	.142 G-s
P2P - Pump Outboard Horz Peakvue	.0086 G-s	
P2V - Pump Outboard Vertical	.062 In/Sec	.110 G-s
P2A - Pump Outboard Axial	.095 In/Sec	.111 G-s
MON84 - WCM Tails Pump S	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.089 In/Sec	1.206 G-s
MOP - Motor Outboard Horz Peakvue	.0097 G-s	
MOV - Motor Outboard Vertical	.059 In/Sec	.128 G-s
MOA - Motor Outboard Axial	.084 In/Sec	.061 G-s
MIH - Motor Inboard Horizontal	.069 In/Sec	.488 G-s
MIP - Motor Inboard Horz Peakvue	.032 G-s	
MIV - Motor Inboard Vertical	.102 In/Sec	.110 G-s
MIA - Motor Inboard Axial	.076 In/Sec	.062 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.106 In/Sec	.418 G-s
PIP - Pump Inboard Horz Peakvue	.126 G-s	
PIV - Pump Inboard Vertical	.098 In/Sec	.338 G-s
PIA - Pump Inboard Axial	.093 In/Sec	.281 G-s

MON38A	- LBS Reflux Pmp S	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.048 In/Sec	.362 G-s
MOP - Motor Outboard Horz Peakvue		.150 G-s	
MOV - Motor Outboard Vertical		.044 In/Sec	.233 G-s
MOA - Motor Outboard Axial		.065 In/Sec	.173 G-s
MIH - Motor Inboard Horizontal		.043 In/Sec	.477 G-s
MIP - Motor Inboard Horz Peakvue		.044 G-s	
MIV - Motor Inboard Vertical		.065 In/Sec	.072 G-s
MIA - Motor Inboard Axial		.073 In/Sec	.114 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.061 In/Sec	.920 G-s
PIP - Pump Inboard Horz Peakvue		.118 G-s	
PIV - Pump Inboard Vertical		.060 In/Sec	.519 G-s
PIA - Pump Inboard Axial		.066 In/Sec	.277 G-s
MON38B	- LBS Reflux Pmp N	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.092 In/Sec	.551 G-s
MOP - Motor Outboard Horz Peakvue		.065 G-s	
MOV - Motor Outboard Vertical		.092 In/Sec	.141 G-s
MOA - Motor Outboard Axial		.055 In/Sec	.112 G-s
MIH - Motor Inboard Horizontal		.050 In/Sec	.512 G-s
MIP - Motor Inboard Horz Peakvue		.170 G-s	
MIV - Motor Inboard Vertical		.116 In/Sec	.068 G-s
MIA - Motor Inboard Axial		.057 In/Sec	.094 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.098 In/Sec	.769 G-s
PIP - Pump Inboard Horz Peakvue		.089 G-s	
PIV - Pump Inboard Vertical		.129 In/Sec	.392 G-s
PIA - Pump Inboard Axial		.131 In/Sec	.257 G-s
MON 32B	- ARC Reflux Pmp S	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.070 In/Sec	.338 G-s
M1P - Motor Outboard Horz Peakvue		.031 G-s	
M1V - Motor Outboard Vertical		.083 In/Sec	.149 G-s
M1A - Motor Outboard Axial		.098 In/Sec	.133 G-s
M2H - Motor Inboard Horizontal		.047 In/Sec	.528 G-s
M2P - Motor Inboard Horz Peakvue		.090 G-s	
M2V - Motor Inboard Vertical		.126 In/Sec	.141 G-s
M2A - Motor Inboard Axial		.085 In/Sec	.184 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.156 In/Sec	.397 G-s
P1P - Pump Inboard Horz Peakvue		.028 G-s	
P1V - Pump Inboard Vertical		.161 In/Sec	.206 G-s
P1A - Pump Inboard Axial		.174 In/Sec	.340 G-s
P2H - Pump Outboard Horizontal		.099 In/Sec	.380 G-s
P2P - Pump Outboard Horz Peakvue		.104 G-s	
P2V - Pump Outboard Vertical		.156 In/Sec	.429 G-s
P2A - Pump Outboard Axial		.135 In/Sec	.231 G-s
MON 32A	- ARC Reflux Pmp N	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
M1V - Motor Outboard Vertical		.047 In/Sec	.154 G-s
M1A - Motor Outboard Axial		.070 In/Sec	.069 G-s

M2H - Motor Inboard Horizontal	.051 In/Sec	.304 G-s
M2P - Motor Inboard Horz Peakvue	.033 G-s	
M2V - Motor Inboard Vertical	.060 In/Sec	.127 G-s
M2A - Motor Inboard Axial	.065 In/Sec	.068 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.059 In/Sec	.361 G-s
P1P - Pump Inboard Horz Peakvue	.064 G-s	
P1V - Pump Inboard Vertical	.108 In/Sec	.295 G-s
P1A - Pump Inboard Axial	.083 In/Sec	.273 G-s
P2H - Pump Outboard Horizontal	.069 In/Sec	.366 G-s
P2P - Pump Outboard Horz Peakvue	.041 G-s	
P2V - Pump Outboard Vertical	.106 In/Sec	.510 G-s
P2A - Pump Outboard Axial	.071 In/Sec	.316 G-s
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.053 In/Sec	.354 G-s
M1P - Motor Outboard Horz Peakvue	.042 G-s	
MON118 - Tempered H2O Pmp		
	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.072 In/Sec	.255 G-s
MOP - Motor Outboard Horz Peakvue	.059 G-s	
MOV - Motor Outboard Vertical	.032 In/Sec	.121 G-s
MOA - Motor Outboard Axial	.066 In/Sec	.026 G-s
MIH - Motor Inboard Horizontal	.069 In/Sec	.159 G-s
MIP - Motor Inboard Horz Peakvue	.092 G-s	
MIV - Motor Inboard Vertical	.048 In/Sec	.073 G-s
MIA - Motor Inboard Axial	.057 In/Sec	.141 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.039 In/Sec	.068 G-s
PIP - Pump Inboard Horz Peakvue	.047 G-s	
PIV - Pump Inboard Vertical	.037 In/Sec	.025 G-s
PIA - Pump Inboard Axial	.034 In/Sec	.027 G-s
POH - Pump Outboard Horizontal	.049 In/Sec	.049 G-s
POP - Pump Outboard Horz Peakvue	.031 G-s	
POV - Pump Outboard Vertical	.032 In/Sec	.024 G-s
POA - Pump Outboard Axial	.038 In/Sec	.024 G-s
MON55SM - HUT Pump S		
	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.051 In/Sec	2.491 G-s
MOP - Motor Outboard Horz Peakvue	1.551 G-s	
MOV - Motor Outboard Vertical	.057 In/Sec	.957 G-s
MOA - Motor Outboard Axial	.051 In/Sec	.496 G-s
MIH - Motor Inboard Horizontal	.047 In/Sec	2.809 G-s
MIP - Motor Inboard Horz Peakvue	1.284 G-s	
MIV - Motor Inboard Vertical	.058 In/Sec	.781 G-s
MIA - Motor Inboard Axial	.063 In/Sec	.491 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.122 In/Sec	.661 G-s
PIP - Pump Inboard Horz Peakvue	.357 G-s	
PIV - Pump Inboard Vertical	.086 In/Sec	.444 G-s
PIA - Pump Inboard Axial	.087 In/Sec	.389 G-s
POH - Pump Outboard Horizontal	.084 In/Sec	.510 G-s
POP - Pump Outboard Horz Peakvue	.154 G-s	
POV - Pump Outboard Vertical	.085 In/Sec	.222 G-s
POA - Pump Outboard Axial	.081 In/Sec	.164 G-s

MON67NM	- PTZ Xfer Pump N	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.083 In/Sec	.232 G-s
MOP - Motor Outboard Horz Peakvue		.027 G-s	
MOV - Motor Outboard Vertical		.063 In/Sec	.141 G-s
MOA - Motor Outboard Axial		.112 In/Sec	.146 G-s
MIH - Motor Inboard Horizontal		.115 In/Sec	.483 G-s
MIP - Motor Inboard Horz Peakvue		.052 G-s	
MIV - Motor Inboard Vertical		.118 In/Sec	.233 G-s
MIA - Motor Inboard Axial		.108 In/Sec	.148 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.129 In/Sec	.611 G-s
PIP - Pump Inboard Horz Peakvue		.062 G-s	
PIV - Pump Inboard Vertical		.067 In/Sec	.301 G-s
PIA - Pump Inboard Axial		.048 In/Sec	.279 G-s
MON68A	- #1 Reactor H2O Circ Pump	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.129 In/Sec	.272 G-s
MOP - Motor Outboard Horz Peakvue		.100 G-s	
MOV - Motor Outboard Vertical		.051 In/Sec	.172 G-s
MOA - Motor Outboard Axial		.097 In/Sec	.051 G-s
MIH - Motor Inboard Horizontal		.119 In/Sec	.234 G-s
MIP - Motor Inboard Horz Peakvue		.080 G-s	
MIV - Motor Inboard Vertical		.056 In/Sec	.050 G-s
MIA - Motor Inboard Axial		.065 In/Sec	.031 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.077 In/Sec	.210 G-s
PIP - Pump Inboard Horz Peakvue		.118 G-s	
PIV - Pump Inboard Vertical		.056 In/Sec	.272 G-s
PIA - Pump Inboard Axial		.071 In/Sec	.258 G-s
MON43A	- Amide Reactor Circ Pmp #1N	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.070 In/Sec	.125 G-s
MOP - Motor Outboard Horz Peakvue		.029 G-s	
MOV - Motor Outboard Vertical		.079 In/Sec	.060 G-s
MOA - Motor Outboard Axial		.123 In/Sec	.023 G-s
MIH - Motor Inboard Horizontal		.078 In/Sec	.435 G-s
MIP - Motor Inboard Horz Peakvue		.069 G-s	
MIV - Motor Inboard Vertical		.091 In/Sec	.113 G-s
MIA - Motor Inboard Axial		.112 In/Sec	.188 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.282 In/Sec	.318 G-s
PIP - Pump Inboard Horz Peakvue		.183 G-s	
PIV - Pump Inboard Vertical		.178 In/Sec	.194 G-s
PIA - Pump Inboard Axial		.246 In/Sec	.168 G-s
MON43B	- Amide Reactor Circ Pmp #2S	(17-Aug-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.100 In/Sec	.133 G-s
MOP - Motor Outboard Horz Peakvue		.036 G-s	
MOV - Motor Outboard Vertical		.092 In/Sec	.070 G-s
MOA - Motor Outboard Axial		.077 In/Sec	.065 G-s
MIH - Motor Inboard Horizontal		.092 In/Sec	.073 G-s
MIP - Motor Inboard Horz Peakvue		.0085 G-s	
MIV - Motor Inboard Vertical		.112 In/Sec	.025 G-s

MIA - Motor Inboard Axial	.069 In/Sec	.021 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.211 In/Sec	.285 G-s
PIP - Pump Inboard Horz Peakvue	.130 G-s	
PIV - Pump Inboard Vertical	.168 In/Sec	.300 G-s
PIA - Pump Inboard Axial	.144 In/Sec	.352 G-s

MON65 - Amide Reactor Circ Primary	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.169 In/Sec	.333 G-s
MOP - Motor Outboard Horz Peakvue	.180 G-s	
MOV - Motor Outboard Vertical	.363 In/Sec	.164 G-s
MOA - Motor Outboard Axial	.121 In/Sec	.097 G-s
MIH - Motor Inboard Horizontal	.155 In/Sec	.553 G-s
MIP - Motor Inboard Horz Peakvue	.395 G-s	
MIV - Motor Inboard Vertical	.268 In/Sec	.109 G-s
MIA - Motor Inboard Axial	.123 In/Sec	.084 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.116 In/Sec	.132 G-s
PIP - Pump Inboard Horz Peakvue	.096 G-s	
PIV - Pump Inboard Vertical	.144 In/Sec	.133 G-s
PIA - Pump Inboard Axial	.082 In/Sec	.075 G-s

MON36 - Irganox Mix/Feed Pump	(17-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.060 In/Sec	.178 G-s
MOP - Motor Outboard Horz Peakvue	.056 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.195 G-s
MOA - Motor Outboard Axial	.038 In/Sec	.254 G-s
IIH - Input Shaft Inboard Horizontal	.048 In/Sec	
IIP - Input Shaft Inboard Horz Peakvue	.212 G-s	
IIV - Input Shaft Inboard Vertical	.039 In/Sec	
IIA - Input Shaft Inboard Axial	.038 In/Sec	
	OVERALL LEVEL	1K-20KHz
POH - Pump Outboard Horizontal	.071 In/Sec	.581 G-s
POP - Pump Outboard Horz Peakvue	.233 G-s	
POV - Pump Outboard Vertical	.079 In/Sec	.838 G-s
POA - Pump Outboard Axial	.110 In/Sec	1.312 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK

Abbreviated Last Measurement

Summary

Database: Lucite Memphis MMA.rbm
Area: MMA
Route No. 5: QRTLY
Report Date: 03-Sep-20 10:39

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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SAR38 - Drying Tower Pumpout	(21-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.132 In/Sec	1.096 G-s

MOP - Motor Outboard Horz Peakvue	.540 G-s	
MOV - Motor Outboard Vertical	.088 In/Sec	.304 G-s
MOA - Motor Outboard Axial	.121 In/Sec	.239 G-s
MIH - Motor Inboard Horizontal	.156 In/Sec	.171 G-s
MIP - Motor Inboard Horz Peakvue	.062 G-s	
MIV - Motor Inboard Vertical	.134 In/Sec	.042 G-s
MIA - Motor Inboard Axial	.159 In/Sec	.039 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.455 In/Sec	.190 G-s
PIP - Pump Inboard Horz Peakvue	.024 G-s	
PIV - Pump Inboard Vertical	.238 In/Sec	.084 G-s
PIA - Pump Inboard Axial	.309 In/Sec	.137 G-s
SAR127 - Final Twr Pumpout Drain Pmp	(21-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.020 In/Sec	.392 G-s
MOP - Motor Outboard Horz Peakvue	.095 G-s	
MOV - Motor Outboard Vertical	.022 In/Sec	.111 G-s
MOA - Motor Outboard Axial	.025 In/Sec	.191 G-s
MIH - Motor Inboard Horizontal	.020 In/Sec	.340 G-s
MIP - Motor Inboard Horz Peakvue	.136 G-s	
MIV - Motor Inboard Vertical	.031 In/Sec	.107 G-s
MIA - Motor Inboard Axial	.031 In/Sec	.129 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.061 In/Sec	.083 G-s
PIP - Pump Inboard Horz Peakvue	.035 G-s	
PIV - Pump Inboard Vertical	.035 In/Sec	.132 G-s
PIA - Pump Inboard Axial	.075 In/Sec	.101 G-s
SAR222 - Oleum Twr Drain Pmp	(21-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.071 In/Sec	.494 G-s
MOP - Motor Outboard Horz Peakvue	.0064 G-s	
MOV - Motor Outboard Vertical	.098 In/Sec	.378 G-s
MOA - Motor Outboard Axial	.088 In/Sec	.496 G-s
MIH - Motor Inboard Horizontal	.059 In/Sec	.526 G-s
MIP - Motor Inboard Horz Peakvue	.013 G-s	
MIV - Motor Inboard Vertical	.065 In/Sec	.341 G-s
MIA - Motor Inboard Axial	.078 In/Sec	.428 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.216 In/Sec	3.263 G-s
PIP - Pump Inboard Horz Peakvue	.021 G-s	
PIV - Pump Inboard Vertical	.182 In/Sec	2.081 G-s
POA - Pump Outboard Axial	.265 In/Sec	2.767 G-s
SAR233 - InterpassTwr Drain Pmp1	(21-Aug-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	.101 G-s
MOP - Motor Outboard Horz Peakvue	.0016 G-s	
MOV - Motor Outboard Vertical	.089 In/Sec	.054 G-s
MOA - Motor Outboard Axial	.032 In/Sec	.106 G-s
MIH - Motor Inboard Horizontal	.070 In/Sec	.080 G-s
MIP - Motor Inboard Horz Peakvue	.0029 G-s	
MIV - Motor Inboard Vertical	.066 In/Sec	.042 G-s
MIA - Motor Inboard Axial	.039 In/Sec	.136 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.026 In/Sec	.027 G-s

PIP - Pump Inboard Horz Peakvue	.0016 G-s	
PIV - Pump Inboard Vertical	.030 In/Sec	.055 G-s
PIA - Pump Inboard Axial	.032 In/Sec	.031 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK